

Section IV

LASHINGS

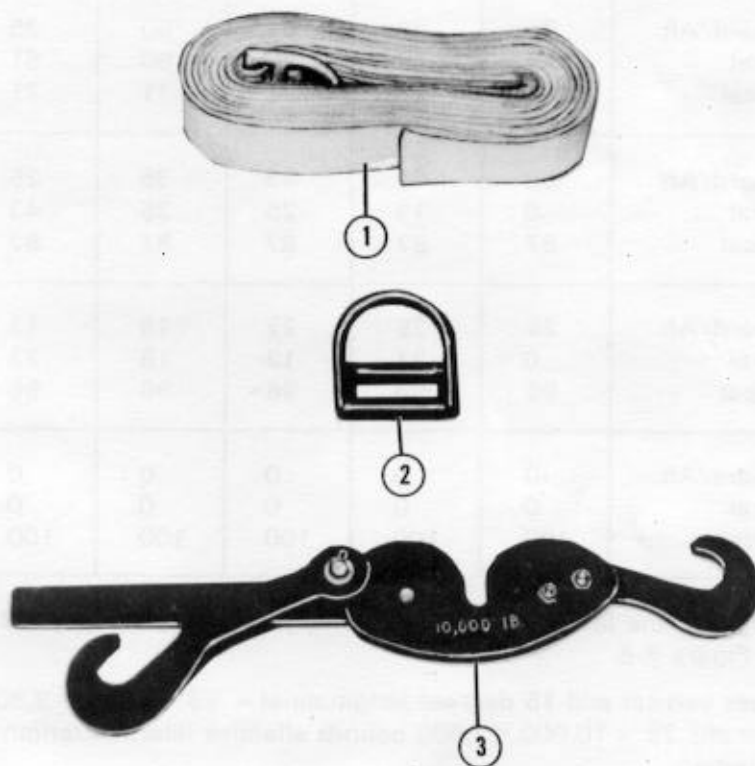
2-10. Use

The drop item and any accompanying load are lashed to the platform to prevent damage to the load or to the aircraft during airdrop. Any accompanying load is lashed to the platform to withstand the same force as the drop item.

strength of a lashing is determined by the angle of the lashing to the plane of thrust. Table 2-4 lists lashing effectiveness (by percent) for forward, aft, lateral, and vertical thrusts. The maximum strengths of the various forms of lashings are given in Figure 2-6.

2-11. Components and Strengths

The components of the lashings used on airdrop loads are shown in Figure 2-5. The effective



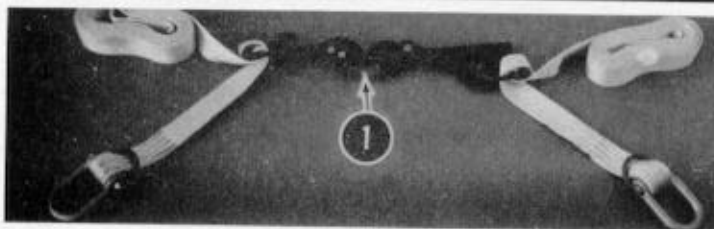
- ① One 15-foot tiedown strap.
- ② One heavy-duty D-ring.
- ③ One 10,000-pound-capacity load binder.

Figure 2-5. Components of lashings

Table 2-4. Lashing effectiveness

		ANGLE BETWEEN LASHING AND LONGITUDINAL AXIS OF PLATFORM							
		0°	15°	30°	45°	60°	75°	90°	
ANGLE BETWEEN LASHING AND PLATFORM FLOOR	0°	Forward/Aft Lateral Vertical	100 0 0	97 26 0	87 50 0	71 74 0	50 87 0	26 97 0	0 100 0
	15°	Forward/Aft Lateral Vertical	97 0 25	93 26 25	84 50 25	68 74 25	48 87 25	25 97 25	0 100 25
	30°	Forward/Aft Lateral Vertical	87 0 50	84 22 50	75 43 50	61 61 50	43 75 50	22 84 50	0 87 50
	45°	Forward/Aft Lateral Vertical	71 0 71	68 18 71	61 35 71	50 50 71	35 61 71	18 68 71	0 71 71
	60°	Forward/Aft Lateral Vertical	50 0 87	48 13 87	43 25 87	35 35 87	25 43 87	13 48 87	0 50 87
	75°	Forward/Aft Lateral Vertical	26 0 96	25 27 96	22 13 96	18 18 96	13 22 96	7 25 96	0 26 96
	90°	Forward/Aft Lateral Vertical	0 0 100	0 0 100	0 0 100	0 0 100	0 0 100	0 0 100	0 0 100
<p>The effective strength of the lashing is determined by multiplying the percent by the maximum strengths given in Figure 2-6.</p> <p>EXAMPLE: 15 degrees vertical and 15 degrees longitudinal = $.93 \times 10,000 = 9,300$ pounds effective strength, forward or aft; $.25 \times 10,000 = 2,500$ pounds effective lateral strength and 2,500 pounds effective vertical strength.</p>									

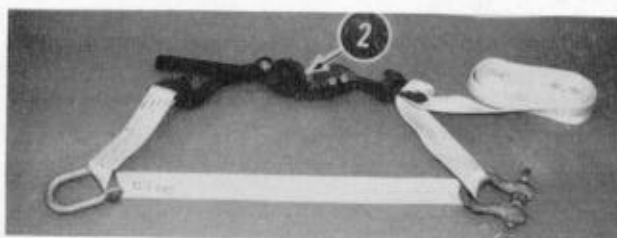
CAUTION
When using type V platform, Dacron lashings must be used.



Platform

Platform

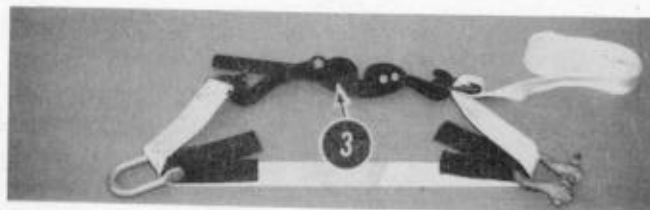
- ① Single line lashing.
5,000 pounds (Dacron) or 3,500 pounds (type X nylon) when attached to a type II or LAPE platform side rail tie-down clevis.
6,000 pounds (Dacron) when attached to a type V platform side rail tie-down clevis or a tie-down ring.



Platform

Item

- ② Double line (floating binder) lashing.
7,000 pounds (Dacron or type X nylon) when attached to a type II or LAPE platform side rail tie-down clevis.
10,000 pounds (Dacron) when attached to a type V platform side rail tie-down clevis.
5,000 pounds (Dacron or type X nylon) when attached to a LAPE panel platform tie-down ring.
8,000 pounds (Dacron) when attached to a type V platform panel tie-down ring.



Platform

Item

- ③ Double line (floating binder) lashing with cotton buffers.
8,500 pounds (Dacron) or 7,000 pounds (type X nylon) when attached to a type II or LAPE platform side rail tie-down clevis.

Figure 2-6. Strengths of Dacron and type X nylon lashings